



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:	Robb et al.
SERIAL NO.:	10/624,940
PUB. NO.: PUB. DATE:	US 2004/0128844 A1 July 8, 2004
EXAMINER:	Fulton, Christopher W.
Art Unit:	2859
FILED:	July 23, 2003
FOR:	"Gradient Calculating Camera Board"

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

September 7, 2004
St. Louis, Missouri

THIRD-PARTY SUBMISSION
IN PUBLISHED APPLICATION
UNDER 37 CFR 1.99(a)

(Duplicate Copy Served To Applicant's Correspondence Address)

Sir:

The following information is submitted as relevant to the examination of the above-identified U.S. Patent Application published as U.S. Patent Application Publication No. US 2004/0128844 A1 on July 8, 2004. This submission is submitted within two months of the publication date of the application per 37 CFR 1.99(e), and is accompanied by the fee set forth in 37 CFR 1.17(p), as required by 37 CFR 1.99(b)(1). A duplicate copy of this submission has been served to the applicants' Correspondence Address listed on the face of the U.S. Patent Application Publication, as required by 37 CFR 1.99(c).

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Transmitted herewith is:

- ☒ Third-Party Submission In Published Application Under 37 CFR 1.99(a)
☒ A check in the amount of \$180.00.

The Commissioner is hereby authorized to charge any additional fees or credit overpayment under 37 CFR 1.16 and 1.17, which may be required by this paper to Deposit Account 162201. *Duplicate copies of this sheet are enclosed.*

Mark E. Books
Mark E. Books
Registration No: 40,918

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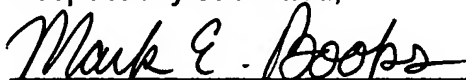
Mark E. Books
Mark E. Books, Reg. No. 40,918

9/7/04
Date

RELEVANT INFORMATION:

1. U.S. Patent No. 4,262,220 to *Delacruz* entitled "Optical Current Isolator Circuit", issued April 14, 1981.
2. U.S. Patent No. 5,018,853 to *Hechel et al.* entitled "Angle Sensor With CCD", issued on May 28, 1991.
3. U.S. Patent No. 5,949,901 to *Nichani et al.* entitled "Semiconductor Device Image Inspection Utilizing Image Subtraction and Threshold Imaging", issued on September 7, 1999.
4. U.S. Patent No. 6,041,148 to *Wilt* entitled "System and Method For Extracting Image Data", issued on March 21, 2000.
5. U.S. Patent No. 6,269,194 B1 to *Nichani* entitled "Method and Apparatus Using Image Subtraction and Dynamic Thresholding", issued on July 31, 2001.
6. Robotics World, May 2001, "Improvements in Machine Vision Give Robots Affordable, Reliable Eyesight", Michael E. Williams, DVT Corp. (3 pages).
7. PerkinElmer Optoelectronics Product Literature, "MVS-4000 – Machine Vision Strobe", June 2001 (2 pages).
8. Circuit Diagram – Universal Xenon Flash Transmitter – Opto-isolator Trigger, David Johnson & Associates, June 9, 2000 (1 page).
9. Sensors – June 2001 – "Advances in Machine Vision For Robot Control" by Phillip J. Heil and Michael E. Williams, DVT Corp. (4 pages).
10. Cognex 2001 Press Release – "Cognex Corporation Adds Ethernet / IP To Networkable In-Sight Vision Sensors" , August 13, 2001 (3 pages).

Respectfully submitted,



Mark E. Books, Reg. No. 40,918
Polster, Lieder, Woodruff & Lucchesi, L.C.
12412 Powerscourt Drive, Suite 200
St. Louis, Missouri 63131-3615
(314) 238-2400

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McDermott, Will & Emery
600 13th Street, N.W.
Washington, D.C. 20005-3096

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Mark E. Books
Mark E. Books, Reg. No. 40,918
9/7/04
Date of Signature